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Translation of the
original user guide

USER GUIDE

Excelian 1200



Grass cutting

Brush-cutter

CONTENTS:

- Grass cutting brush-cutter with safety elements
- Adjustment wrench
- Harness
- User guide
- Harness adjustment sheet



READ THE USER GUIDE CAREFULLY BEFORE USING THE TOOL

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INTRODUCTION

Dear customer,

Thank you for purchasing the **EXCELION 1200** grass cutting brush-cutter. Used and serviced correctly, this tool will ensure years of satisfaction.

With more than 20 years of experience in portable electric equipment, Pellenc proposes a large range of Lithium-Ion and Lithium-Polymer powered tools intended for professional use and designed for maintenance work in green spaces, orchards and vineyards, and cleaning equipment for public roads.

Pellenc sets the stage for a new generation of tools combining the advantages of cordless electricity with the power of Lithium-Ion and Lithium-Polymer, designed for intensive, high quality work.

Increasingly quiet and compact, environmentally friendly, economically very profitable and complying with ever more strict specifications regarding ergonomics, power and autonomy, Pellenc tools prove their worth every day, whether in vineyards, orchards or for the maintenance of green spaces and public sectors. Pellenc tools are the world leader in this field.

Because of the lightweight nature and easy handling of PELLENC tools, users can work better, with less effort, without noise and faster than with heat-engine powered tools.

A single unique energy source powers PELLENC tools intended for professional use: The Ultra Lithium Battery. This revolutionary battery is available in several models, with extended work capabilities. Once purchased, this battery is compatible with most of the Pellenc Green and City Technology range of products.

«Innovation, ability to listen, quality and environmental friendliness are PELLENC priorities.»

OUR high capacity Ultra Lithium-Ion BATTERIES

PELLENC is the first and only manufacturer worldwide to propose a whole range of professional tools for Parks and Gardens, Local Authorities, Golf Courses, Orchards, Vineyards etc. operated using **ultra-high capacity ternary Lithium-Ion batteries**.

PELLENC has developed its own Lithium-based technology for **the best results in terms of output power, autonomy, weight and ergonomics**. The result is enlightening as the Pellenc Lithium-Ion technology is nearly twice more efficient than the Manganese Lithium-Ion technology. Manganese Lithium-Ion contains **125 W/kg, while Pellenc Lithium-Ion contains 250 W/kg**.

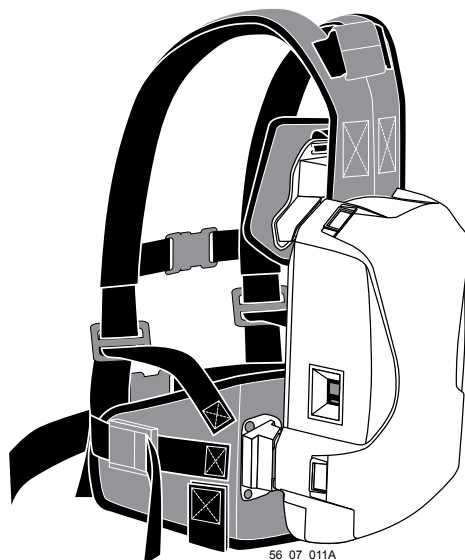
Furthermore, our ultra-high capacity batteries have an ranging from 800 to 1,500 cycles (one cycle corresponds with a full charge and discharge). Even after hundreds of days of use, the battery still reaches over 80% of its initial capacity.

Equipped with a **patented intelligent system**, Pellenc batteries can be charged at any time without memory effect and without altering their lithium-ion components. They automatically discharge after several days of non-use in order to be stored risk free for several months.

The ultra-high capacity of Ultra Lithium Batteries guarantees **pollution free, odourless and quiet operation with a record level of autonomy**.

INTRODUCTION

For example, a PELLENC ULB 1100 battery is equivalent to over
4700 liters of gasoline and 90 liters of mixture!



Characteristics of the ULTRA LITHIUM BATTERY

- **Secure system (patented)** guarantees the preservation of your battery in the event of overloading, discharging or over-heating
- **Life system (patented):** ensures an optimum service life for your battery by protecting each of the components individually
- **Balance system (patented):** guarantees the balancing of the various battery components in order to optimise balanced operation
- **Power system (patented):** enables use of the entire range of PELLENC tools within the scope of a professional activity thanks to the restitution of the battery's maximum capacity

Advantages of the ULTRA LITHIUM BATTERY

- **Environmentally friendly** the energy used by PELLENC tools is environmentally friendly and participates in an initiative towards sustainable development. Compared to equivalent heat engine powered tools, CO2 emissions are 30 to 90 times lower.
- **Power:** PELLENC equipment ensures the user has an unequalled power supply of up to 3,000 W.
- **Savings:** the battery permits up to a full day of work at a derisory total cost.
- **Ergonomics:** PELLENC tools are very quiet and light, offering unrivalled comfort and optimal working conditions.
- **Cost-effectiveness:** the cost of your battery will be recovered in under a year of use (from 135 days). The return on investment in the battery over its service life is greater than 5,000 € thanks to the savings on fuel which is not required*.

Compatibility of our batteries with our machines:

All PELLENC multi-function Ultra Lithium Batteries can be used on all of our machines. However, we recommend the use of batteries according to the tool, in order to achieve an increased optimization of autonomy, power and weight.

* You use 5L of mixture per day at a price of €1.50 per litre.
Data calculated for the regular use of the ULiB 1100 battery.

INTRODUCTION

RECOMMENDED USE OF BATTERIES AND TOOLS ACCORDING TO THEIR POWER AND AUTONOMY*

	SPECIFIC BATTERY	MULTIFUNCTION BATTERIES				
		400	700	1100	POLY 5	OLIVION
Weight in kg (no harness nor belt)	200					
	1.9	3.4	5.5	5.9	3.4	5.5
LIXION Evolution - vineyard pruning shears	1 to 3 days					
LIXION Evolution adaptable - vineyard pruning shears		2 / 6 days	5 days	10 days	3 / 7 days	5 days
TREELION autonomous orchard pruning shears	1 to 2 days					
TREELION adaptable orchard pruning shears		3 days	4 / 5 days	7 days	3.5 days	4 / 5 days
HELION – hedge trimmer		1/2 day	Up to 1 day	Up to 2 days	1/2 day	Up to 1 day
OLIVION – olive harvester		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
CULTIVION – hoeing machine		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
SELION Pole - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION M12 - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION C20 - chainsaw		1 to 3 hours	3 to 5 hours	Up to 1.5 days	2 to 5 hours	
EXCELION 1200 – grass-cutting brush cutter		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	
EXCELION 2000 – brush cutter**			2 to 3 hours	3 to 4,5 hours	1 to 2 hours	
AIRION - blower		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	

*Battery autonomy depends on the tool, the use and the vegetation being worked.

**Autonomy calculated based on the Eco mode

 Recommended use

INTRODUCTION

OUR high output MOTORS

As well as Lithium-Ion technology, PELLENC masters the use of another: revolutionary PELLENC **electronic commutation motors**.

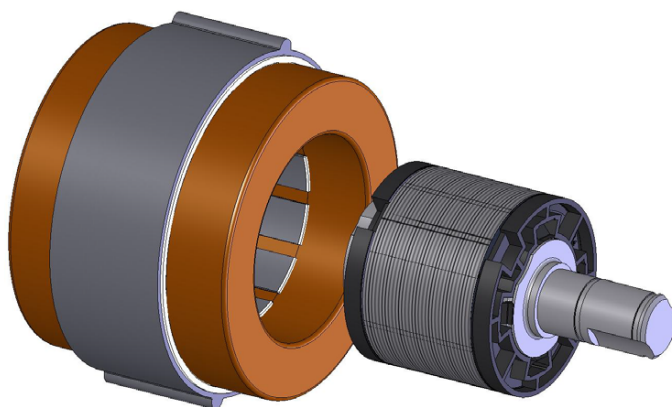
With these revolutionary motors, PELLENC has effectively rendered **the heat engine obsolete**. PELLENC intends to impose its idea of the tool for tomorrow: **powerful, light and pollution-free tools**.

Furthermore, the PELLENC technology motor is the only electric motor with as much **power output with the added advantage of being small, giving it an ideal weight**. The output of this motor is significantly higher than that of traditional direct-current motors with brushes. Friction caused by the brushes disappears, **the output of PELLENC motors is nearly 90 %**.

PELLENC motors are **Brushless motors**. This means that their service life is theoretically infinite, with only the service life of the ball bearings limiting the motor's service life. There is no **need for motor maintenance, as opposed to heat engines**.

PELLENC Brushless motors stop completely each time the trigger is pressed, on the contrary to heat engines. Therefore, sound emissions are very low to the benefit of the user and his immediate surroundings!

Finally, PELLENC Brushless motors often drive the cutting element directly (**no clutch or reduction gearbox, meaning less noise and wear**). Motor control is electronic, as is the power supply, meaning that noises linked to mechanical part movements are extremely limited.



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By using PELLENC battery and motor technology, you benefit from several advantages:

- energy savings
- ease and comfort of use
- free from motor maintenance
- power equivalent to and often higher than combustion engines
- extremely profitable tools
- lightweight
- no noise pollution or odors
- **virtually inexistent carbon emissions**
- Immediate start-up, no need for a starter.

PELLENC OFFERS TECHNOLOGY WHICH MAKES THE HEAT ENGINE OBSOLETE

INTRODUCTION

OUR RANGE OF PRODUCTS

PELLENC Green and City Technology develops new products every year in an aim to meet the requirements of professionals.

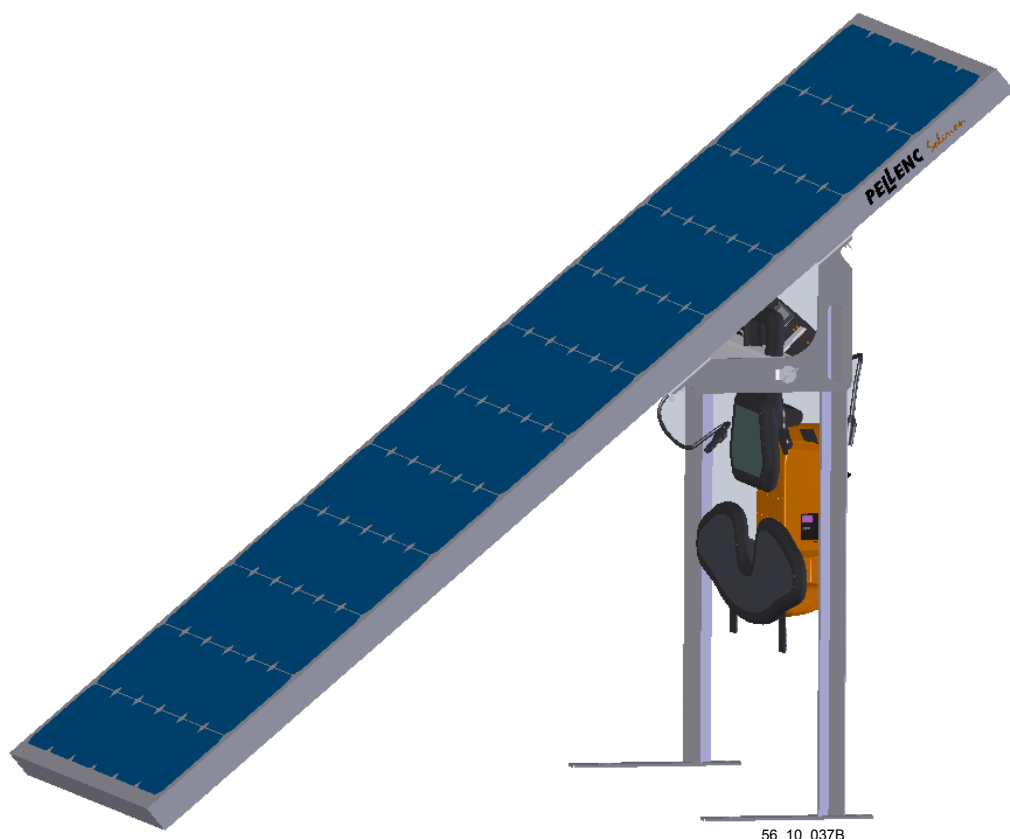
Today, our range of products is growing and our engineers are doing their utmost to create tools, thus pushing technology advances further.

Our passion is innovation, with an aim to improve the working quality and conditions for professionals by supplying a complete range of powerful, lightweight, easy-to-handle and very profitable tools:

- our blowers operate quietly with power modulation.
- our hedge-trimmers combine comfort and performance.
- our grass-cutting brush cutters are robust and multi-functional.
- our chainsaws are lightweight, powerful and very easy to handle.
- our pruning shears are the most powerful in the world.
- our hoeing machines, which are unique in the world, replace cumbersome rotary hoes.
- our olive harvesters are exceptionally efficient.
- our vine tying machine combines efficiency and profitability.
- our batteries have a very high autonomy.
- our mobile solar panel offers the possibility to charge your batteries anywhere.
- Exceptional light output of our autonomous lighting systems.

All of our tools have minimal CO2 emissions and meet the requirements of Local Collectivities or other associations in terms of a sustainable environment and ecology.

PELLENC is the only company to propose a full range of tools which are 100 % clean and with zero CO2 emissions thanks to the SOLERION solar panels which can be used to recharge our batteries.



INTRODUCTION



Hedge-trimmer
HELION Universal



Chainsaw
SELION C20



Chainsaw
SELION M12



Blower
AIRION



Grass-Cutting Brush Cutter
EXCELION 1200



Brush Cutter
EXCELION 2000



Hoeing machine
CULTIVION



Chainsaw on pole
SELION Pole or Telescopic



Hedge-trimmer on pole
HELION Pole or Telescopic



Olive harvester
OLIVION Pole or Telescopic



Battery converter
Power Converter 1000 W



Vineyard pruning shears
LIXION Evolution



Orchard and green space pruning
shears
- 2 hands -
TREELION D45



Orchard and
green space pruning shears
TREELION M45



Lighting system
LUMENION

INTRODUCTION

BILAN CARBONE

“Every type of human activity creates greenhouse gas emissions, whether directly or indirectly. Therefore, every company, administration or association may quite rightly take an interest in the emissions they generate. To enable them to act, they have to establish an analysis to find their room for maneuver. The Bilan Carbone® method is a greenhouse gas (GHG) emissions assessment tool. It uses easily available data to correctly evaluate your activity in terms of direct or indirectly generated emissions.” (Source: ADEME-France)

In order to act responsibly, PELLENC has launched an environmentally friendly range of tools with minimum CO2 emissions, which can be as low as zero thanks to the SOLERION solar charger.

Thanks to the development of its own Lithium-Ion clean technology, PELLENC proposes ultra-high capacity batteries with a **record level of autonomy** and **power to rival heat motors**. In addition, the PELLENC motor makes the tool **exceptionally profitable** as it consumes very little energy and is **unbeatably lightweight**.

Lithium-Ion technology combined with the electric PELLENC motor means that the EXCELION 1200 emits very little CO2 into the atmosphere, giving it the image of a **clean tool**.

When comparing the direct CO2 emissions of the EXCELION 1200 and a heat-engine powered brush-cutter, a huge difference can be seen. A heat-engine powered brush-cutter has direct CO2 emissions of over 4.2 tons per year, while the EXCELION 1200 only emits 67 kg.

Using the EXCELION 1200 means reducing direct emissions by approximately 98 % compared to a heat-engine; that's 64 times less!

**If you recharge PELLENC batteries using our SOLERION solar charger,
direct CO2 emissions are reduced to ZERO**

	Heat-engine powered brush-cutter	EXCELION 1200	WITH SOLERION
	Direct emission + production of petrol	Direct emission + production of electricity	Direct emission
Carbon equivalent/hour	3,532 g CO2/hour	56 g CO2/hour	0 g CO2/hour
Carbon equivalent/day	21 kg CO2/day	336 g CO2/day	0 g CO2/day
Carbon equivalent/year	4.2 tons CO2/year	67 kg CO2/year	0 g CO2/year

Data: On average, 1 kWh EDF has a carbon equivalent to 90 g of CO2 per kWh in France, covering production and remaining life (ADEME-France).

1 liter of SP95 unleaded fuel corresponds to a direct carbon emission equivalent of 2,542g CO2/l and a production + direct carbon emission of 5,518g CO2/l.

Based on: 6 hours of work per day and 200 days of work annually.

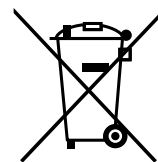
By using PELLENC tools:

- **you considerably reduce greenhouse gas emissions,**
- **you strongly participate in protecting the environment.**

INTRODUCTION

ENVIRONMENTAL PROTECTION

Your equipment comprises numerous materials which can be valorised or recycled. Entrust these to your reseller or to an approved service centre so that they can be processed.



Comply with the regulations in force in your country as concerns environmental protection associated with your activity.



SAFETY INSTRUCTIONS



KEEP THESE INSTRUCTIONS

This manual contains important information and operating instructions for the following tool. Excelion 1200 brush cutter and grass trimmer

You must read **THE WHOLE** of this user guide before using the tool or before carrying out servicing operations.

Comply scrupulously with the instructions and illustrations given in this document.

All through this user guide you will find advisory notes and information entitled: **REMARK, CAUTION / WARNING**.

A **REMARK** provides additional information, clarifies a point or explains a step to be followed in detail.

The **CAUTION** and **WARNING** advisories are used to define a procedure which, if neglected or incorrectly performed, may lead to serious damage to the equipment and/or personal injury.

This advisory:  indicates that if the procedures or instructions are not complied with, any damage will not be covered by the warranty and the owner will be responsible for the repair costs.

Safety indications are also given on the tool; they remind you of the safety precautions to be taken. Identify and read these indications before using the tool. Immediately replace any indications that may become partially illegible or deteriorated.

Refer to the «SAFETY INDICATIONS» heading in order to identify the location of the safety indications on the tool.

No part of this manual may be reproduced without the written consent of PELLENC. The technical characteristics and the illustrations given in this manual are for information purposes and are in no way contractual. PELLENC reserves the right to make any modification or improvement to its products as deemed necessary without informing customers already in possession of a similar model. This manual forms an integral part of the tool and must accompany the tool if it changes hands.

SAFETY INSTRUCTIONS

KEEP THESE INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS FOR THE TOOL



CAUTION Read all the safety measures and all the instructions.
Retain all the safety measures and instructions for later reading.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or preliminary instructions by a person responsible for their safety.

- The Excelion 1200 grass cutting brush-cutter is a professional tool exclusively intended for cleaning green spaces (grass, thick weeds, ligneous weeds, brambles and small shrubs).
- The PELLENC company declines responsibility in the event of damage caused by incorrect operation or use differing from that intended.
- The PELLENC company also declines responsibility in the event of damage caused by the use of non-original parts or accessories.

Work area safety

- a. Keep the work area clean and well lit.
- b. Do not use electric tools in an explosive atmosphere, for example in the presence of flammable liquids, gases or dust.
- c. Keep children and persons present away when using the tool.

Electrical safety

- a. The plugs of the electric tool must be adapted to the base. Never modify the plug in any way whatsoever. Do not use adaptors with grounded tools.
- b. Avoid any body contact with grounded surfaces such as pipes, radiators, cookers and refrigerators.
- c. Do not expose tools to rain or damp conditions.
- d. Do not misuse the power cord. Never use the power cord to carry, pull or disconnect the tool. Keep the power lead away from heat, lubricant, sharp edges or moving parts.
- e. When using a tool outdoors, use an extension adapted to outdoor use.
- f. If you must use a tool in a damp place, use power supply protected by a residual current device (RCD).

Personal safety

- a. Remain vigilant, watch what you are doing and use common sense when using the tool. Do not use a tool if you are tired or under the influence of drugs, alcohol or medication.
- b. Wear safety equipment. Always wear eye protection.
- c. Avoid any untimely starting of the device. Make sure the switch is in the off position before connecting the tool to the mains and/or battery pack, picking it up or carrying it.
- d. Remove any adjustment key before starting the tool.
- e. Do not rush. Adopt a suitable position and remain balanced at all times.
- f. Wear appropriate clothing. Do not wear loose clothing or jewellery.
- g. Keep hair, clothing and gloves away from moving parts.
- h. If systems are provided to connect dust extraction and recovery equipment, make sure these systems are connected and properly used.

SAFETY INSTRUCTIONS

Tool usage and maintenance

- a. Do not force the tool. Use a tool suited to your application.
- b. Do not use the tool if the switch does not allow it to be switched on and off.
- c. Disconnect the plug of the power supply source and/or battery pack from the tool prior to any adjustment, change of accessories or before putting the tool away.
- d. When not in use, keep tools out of reach of children, and do not allow persons to use the tool if they do not know how to use it and if they have not read these instructions.
- e. Comply with tool servicing instructions. Check that the moving parts are not misaligned or jammed, that there are no broken parts or that there is no other condition which could affect the operation of the tool. In the event of damage, have the tool repaired before using it.
- f. Keep the cutting components sharp and clean.
- g. Use the tool, accessories, blades etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.

Use of battery-operated tools and usage precautions.

- a. Only recharge using the charger specified by the manufacturer.
- b. Only use the tools with specifically designated battery packs.
- c. When a battery pack is not used, store it away from other metal objects such as paper clips, coins, keys, nails, screws or other small items which can form a connection from one terminal to another.
- d. In poor conditions, liquid can be ejected from the battery; avoid any contact. In the event of accidental contact, clean with water. If the liquid gets into your eyes, seek medical help.

Maintenance and upkeep

- a. Have the tool serviced by a qualified repairer using only identical spare parts.

SAFETY WARNINGS FOR THE EXCELION 1200 BRUSH CUTTER AND GRASS TRIMMER

1– Do not use the metal cutting tools near walls, fences, tree trunks, rocks or other similar obstacles. Contact with these types of elements can cause a rebound effect, increase the risk of ricochets and damage the cutting tool. Pellenc recommends using Pellenc cutting wires for these work situations.

Never use the Excelion 1200 brush cutter and grass trimmer with one hand only.

2– Always use the machine with the cutting head parallel to the ground. The safety guard no longer provides sufficient protection if the angle of the cutting head is excessive, which is likely to increase the risk of injury.

3– Stop the Excelion 1200 brush cutter and grass trimmer immediately if the cutting tool starts responding differently (different noise, increased vibrations). Check that the cutting tool is properly attached and verify its condition (no distortion, sufficiently sharp). Replace any damaged cutting tool as it can explode and cause serious, even fatal injuries.

4– CAUTION: The cutting tool continues rotating for a few seconds after the control trigger has been released. Always keep your hands and feet clear of the rotating cutting tool.

5– Cutting wire

- Never remove the blade installed in the safety guard as it trims the wire to the appropriate length.
- Never use metal wire or any other material instead of the nylon cutting wire. Metal wire is likely to break and be projected, causing serious injuries.
- Only use nylon cutting wire recommended by Pellenc with a max. diameter of 3 mm.

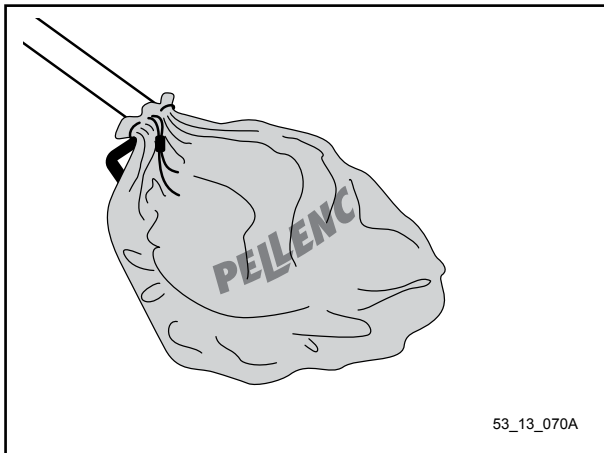
6– Cutting blades

Always use an original Pellenc cutting tool.

SAFETY INSTRUCTIONS

TRANSPORTING THE EXCELION 1200 GRASS CUTTING BRUSH-CUTTER

- 1– Keep the original packaging in order to be able to pack the Excelion 1200 grass cutting brush-cutter in the event of sending it for an overhaul or repair.
- 2– Do not carry the machine or the battery by the power cord.
- 3– Always release the control trigger to stop the electric motor and ensure that the cutting tool is no longer moving before placing the machine on the ground.
- 4– Place metal cutting tool(s) in their original packaging, or in their transport bag.
- 5– Replace the battery in its original packaging.
- 6– Block the machine and battery correctly in the transport vehicle.



STORING THE EXCELION GRASS CUTTING BRUSH-CUTTER

- Keep the original packaging to store the machine.
- Store the machine in a dry place **out of the reach of children**.
- Lubricate the output shaft during prolonged storage.

SAFETY MEASURES FOR THE CHARGER AND THE BATTERY

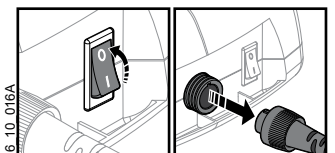


Refer to the Pellenc tools battery manual.



WARNING:

Before working on the tool, check that the On / Off switch is in the off position «0» and disconnect the battery power lead.



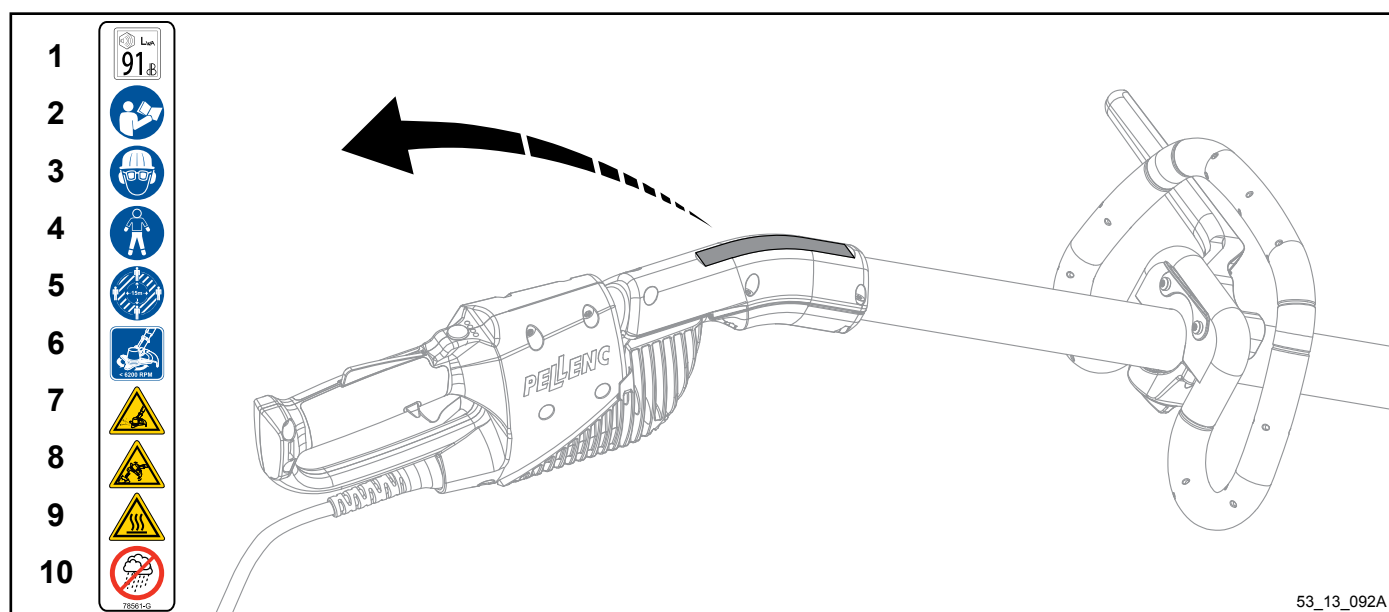
SAFETY INSTRUCTIONS

SAFETY EQUIPMENT



	Protective equipment	Wearing is
1	Helmet	Mandatory
2	Visor	Recommended/advised
3	Hard-wearing gloves	Mandatory
4	Safety footwear	Mandatory
5	Ear protection	Mandatory
6	Safety goggles	Mandatory
7	Safety jacket or over-sleeves	Recommended/advised
8	Work trousers	Mandatory

SAFETY INDICATIONS



1– Noise level

91 dB acoustic power, 78 dB acoustic pressure

2– Read the user manual

Read the notice carefully and comply with the safety measures.

3– Goggles and an approved safety helmet must be worn

Pellenc advises wearing a face shield.

4– Wearing gloves, safety trousers and safety shoes is mandatory

5– Safety distance to be respected

Respect the 15 m safety distance and ensure nobody (particularly children) or animals are within the machine's working space.

Stop the machine immediately if a person or animal approaches.

6– Rotation direction and maximum rotation speed (6,200 rpm)

Pay attention to the grass cutting brush-cutter's rotation direction. This is indicated on the safety casing.

7– Beware of projections

8– Beware of kickback

Avoid all contact between the blade and solid objects.

9– Risk of burns

Do not touch the motor casing or the electronic motor control board's radiator during or after use of the machine.

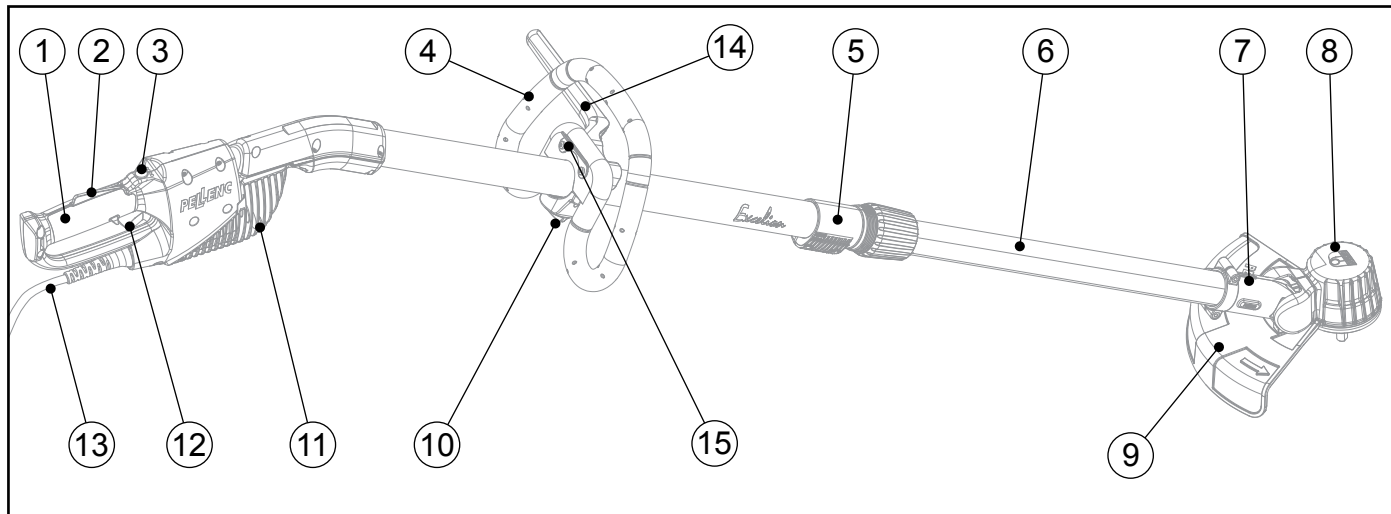
10– Do not expose to or work in the rain.

DESCRIPTION AND TECHNICAL CHARACTERISTICS

The Excelion 1200 grass cutting brush-cutter can be used according to 2 modes of use:

- the Grass Cutting mode, with cutting line,
- the Brush Cutting mode, with steel blades, which requires additional safety elements.

Grass Cutting Mode



Description of the main elements:

1– Handle : For guiding the Excelion 1200 grass cutting brush-cutter

2– Safety trigger : Prevents the control trigger from being accidentally pressed, the safety trigger must be pressed in order to press the control trigger

3– Cutting tool max. rotation speed switch and display panel : Used to select the maximum cutting speed which is indicated on the display panel.

4– Front handle : For guiding the machine, the handle's position on the telescopic tube is adjustable

5– Telescopic tube locking grip : Enables the telescopic tube's length to be adjusted

6– Telescopic tube

7– Telescopic tube support : Articulates with the motor casing, enabling the cutting head's angle to be adjusted

8– Motor casing : Protects the electric motor and evacuates heat. Articulates with the telescopic tube support enabling the cutting head's angle to be adjusted

9– Safety casing : Prevents the risk of the operator being hit by flying objects (stones, bits of metal). A cutter attached to the safety casing ensures the cutting line is at the right length

10– Front handle adjuster knob : Adjusts the position of the front handle on the telescopic tube

11– Electronic motor control board and its radiator : Protects the electronic control board and evacuates the heat.

12– Control trigger : Used to actuate the rotation of the cutting tool according to a progressively adjustable speed.

13– Electric cord : Connects the machine to the Pellenc tools battery.

14– Distancing device : Mandatory safety element for Brush Cutting mode. Reduces the risk of cuts to the operator's legs and feet, by maintaining a safe distance between vibrator rake and operator. Interchangeable part for a right-handed person or a left-handed person.

15– Carrying eye : Mandatory safety element for Brush Cutting mode. Attaches the machine to the operator's safety vest via a harness

DESCRIPTION AND TECHNICAL CHARACTERISTICS

TECHNICAL CHARACTERISTICS

	Excelion 1200	
Model	Version MULTI-CUT Lawnmower	Version MULTI-CUT Two-pronged blade
Power	1,200 W	
Weight (without cutting tool and safety casing)	3.8 Kg	3.9 Kg
Dimensions (L x w x H) in mm	1360 x 85 x 210	1360 x 85 x 210
Cutting diameter	300 mm	230 mm
Rotation speed	2,000 to 6,200	
Working capacity (time)	According to use and battery type	

Determining the sound levels and vibration rates is based on the operating conditions at the maximum nominal rating.

Maximum A-weighted sound pressure level (ref. 20 µPa) at the position of the user	$L_{pA} = 83 \text{ dB(A)}$	$K = 2,5 \text{ dB(A)}$
C-weighted peak sound pressure (ref. 20 µPa) at the position of the user	$L_{pC} < 130 \text{ dB(C)}$	

Values defined as per sound measurement standards NF EN ISO 11201 and NF EN ISO 3744.

Symbol	Value	Unit	Reference	Comment
L_{WAm}	90	dB(A)	1 pW	Measured sound power level
L_{WAg}	91	dB(A)	1 pW	Guaranteed sound power level

The recording of the measured sound power level and of the guaranteed sound power level has been performed according to a procedure in accordance with directive 2000/14/CE appendix V.

Vibration emission value as per EN 60745-1, EN ISO 22867.	handle $a_h \leq 2,5 \text{ m/s}^2$	uncertainty $K_d = 1,5 \text{ m/s}^2$
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PREPARING THE MACHINE FOR USE

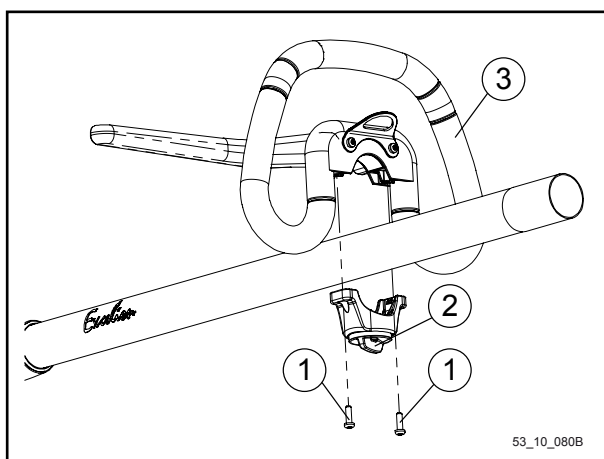
REMARK:

Safety element assembly/disassembly procedures only require the adjustment key supplied with the Excelion 1200 grass cutting brush-cutter.

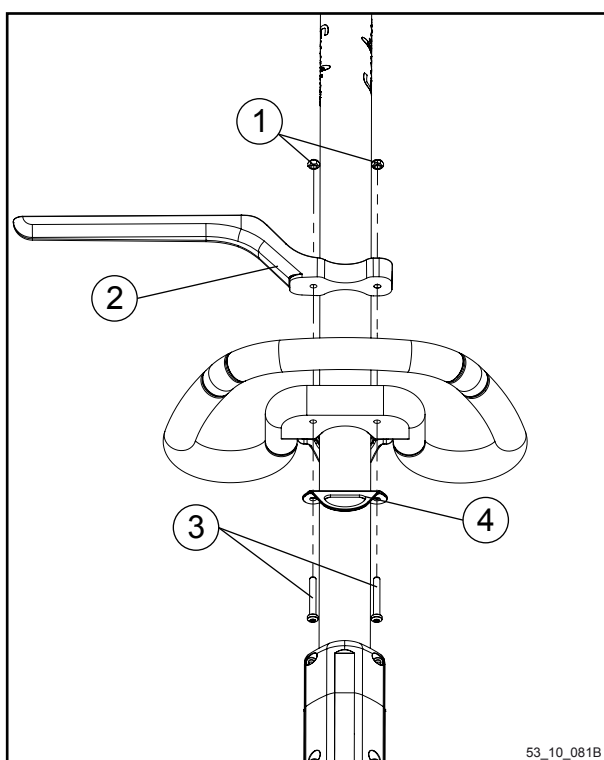
The cutting head assembly/disassembly procedures require circlip pliers (not supplied).

Consult the "Maintenance" section to find the Pellenc part numbers for parts to be replaced (see page 30).

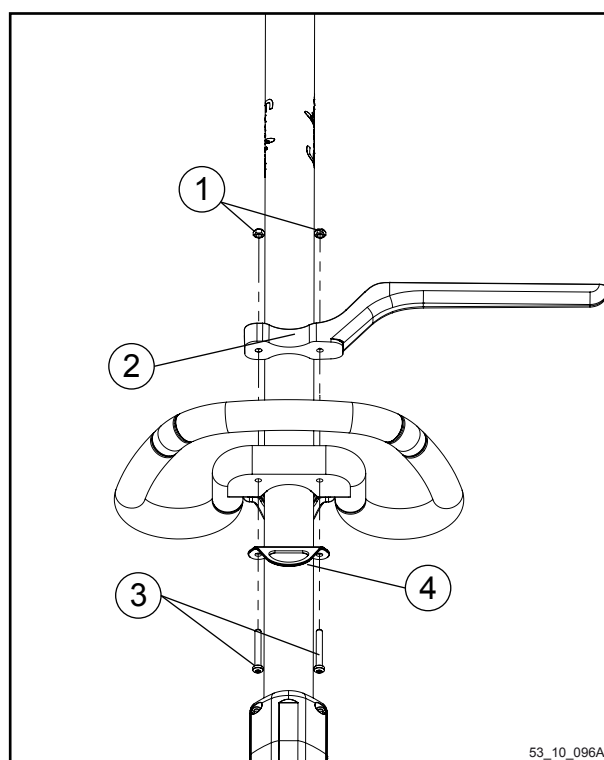
ASSEMBLY/DISASSEMBLY OF THE FRONT HANDLE



ASSEMBLY/DISASSEMBLY OF THE CARRYING EYE AND THE DISTANCING DEVICE

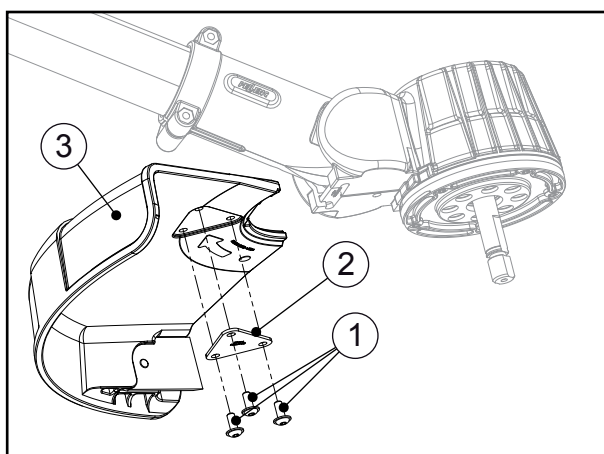


Clearance device for a right-handed person.



Clearance device for a left-handed person.

ASSEMBLY/DISASSEMBLY OF THE SAFETY CASING



ADJUSTING THE WORKING POSITION

ADJUSTING THE WORKING POSITION

Before every use, the Excelion 1200 grass cutting brush-cutter's working position must be adjusted according to the size of the operator. This enables operating comfort requiring little effort from the operator.

Adjusting the machine's working position according to the size of the operator consists in four steps:

- adjustment of the front handle position,
- installation of the harness and adjustment of its length,
- adjustment of the tube length,
- adjustment of the cutting head orientation.

These various adjustments are repeated until the brush cutter is in an adequate working position.

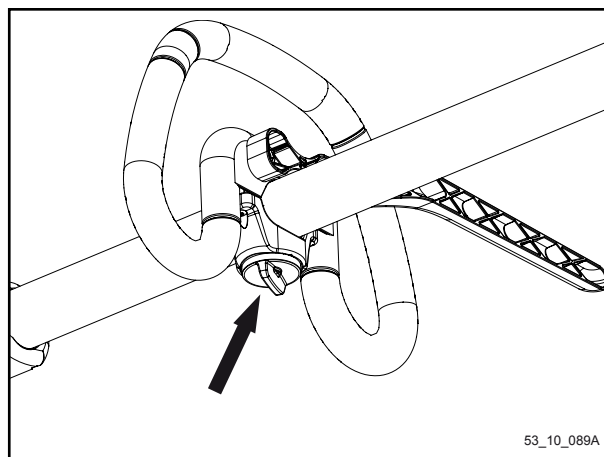
These various adjustments are repeated until the brush cutter and grass trimmer is in a suitable working position.

ADJUSTING THE POSITION OF THE FRONT HANDLE

Adjusting the position of the front handle adjusts the grass cutting brush-cutter's "horizontal position", so that it is within reach and the cutting head makes slight contact with the ground. The elbow should not be bent.

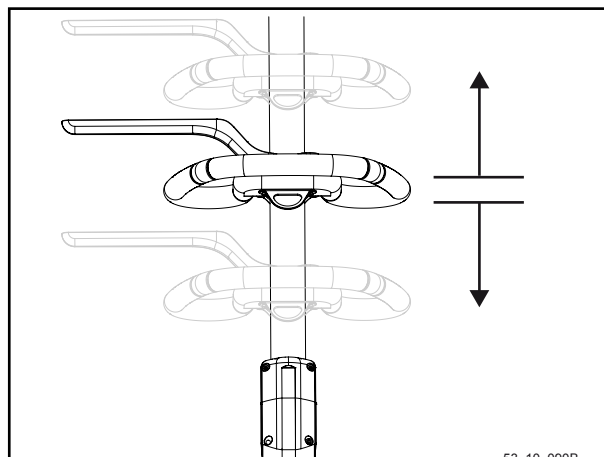
(This adjustment is performed at the same time as the adjustment of the harness length.)

- Unlock the front handle **adjuster knob**.



- Slide the front handle along the telescopic tube until it is a suitable position.

- Lock the front handle **adjuster knob** to block the handle's position on the machine.

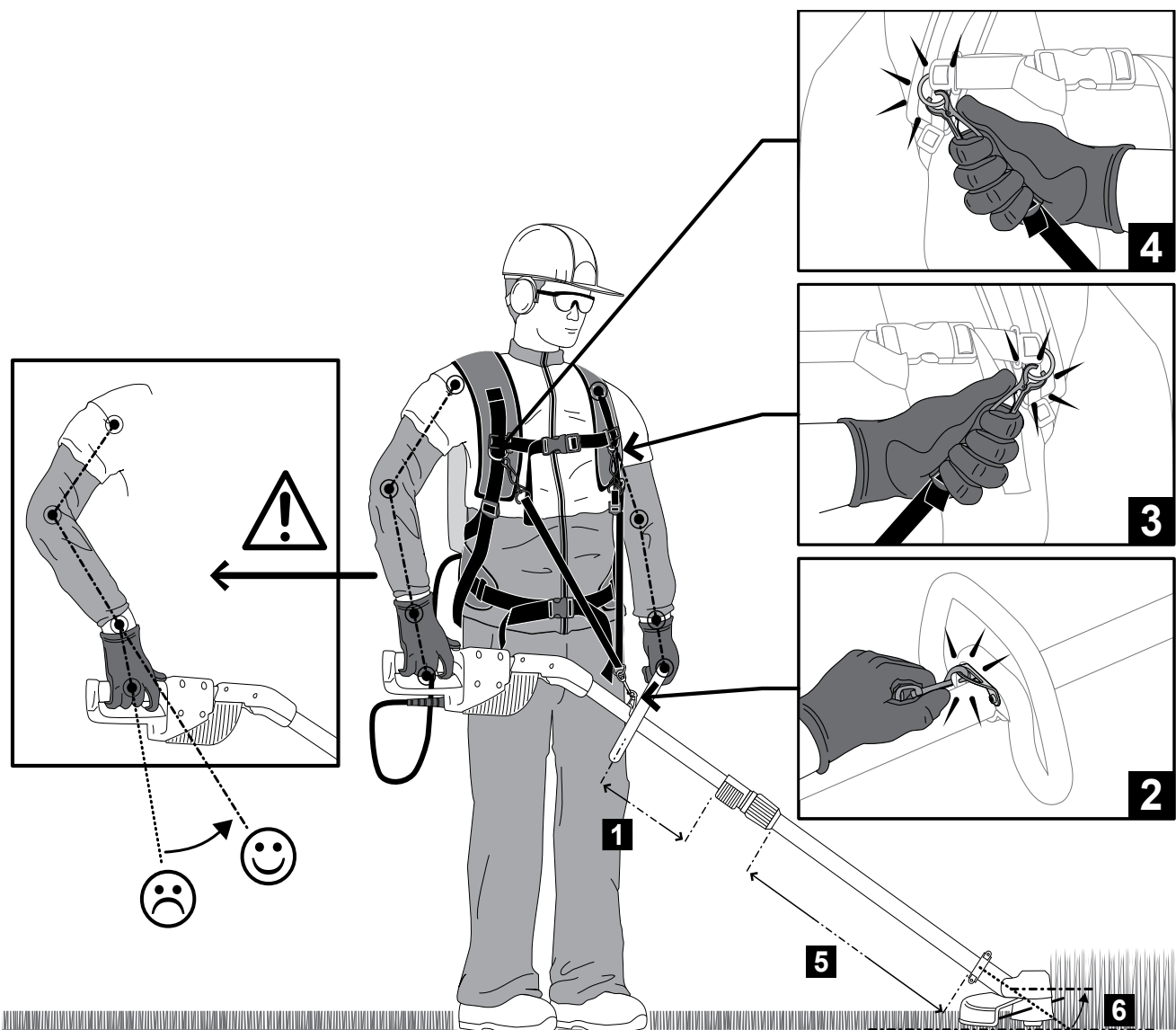


PREPARING THE MACHINE FOR USE

ATTACH AND ADJUST THE LENGTH OF THE HARNESS,

Adapting the length of the harness helps adjust the "vertical position" of the brush cutter so that it is within reach and the cutting head is pointing slightly downwards. (This adjustment is made at the same time as the balance adjustment and the orientation of the handlebar).

THE HARNESS (SUPPLIED WITH THE TOOL)



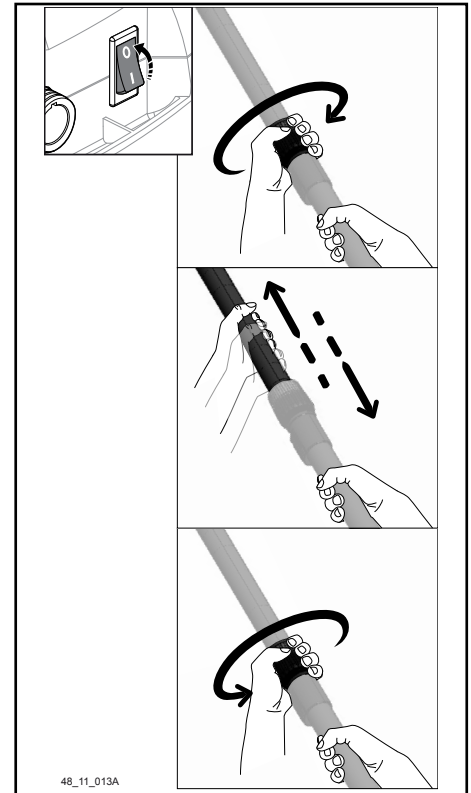
53_13_138A

ADJUSTING THE WORKING POSITION

ADJUSTING THE LENGTH OF THE TELESCOPIC TUBE

Adjusting the length of the telescopic tube enables the correct swing radius to be obtained according to the size of the operator or the working environment.

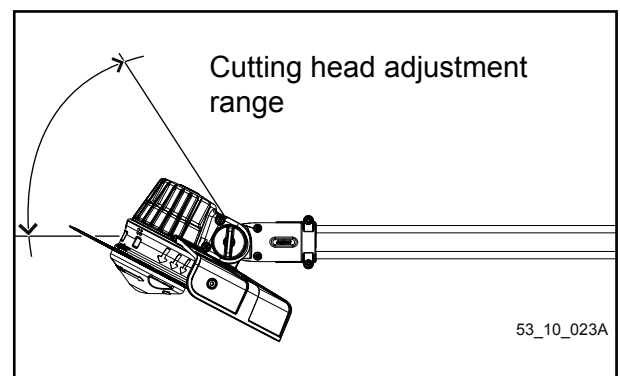
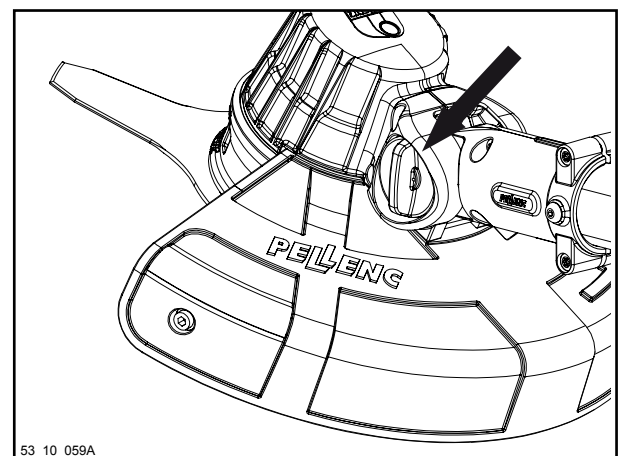
- Unlock the **locking grip** by turning it counter-clockwise.
- Adjust to the desired telescopic tube length.
- Lock the **locking grip**.



ADJUSTING THE CUTTING HEAD ORIENTATION

Adjusting the cutting head orientation enables the cutting head to be aligned with the ground. The cutting head should touch the ground slightly.

- Unlock the motor casing **knob**.
- Adjust the cutting head so that it is parallel with the ground.
- Lock the motor casing **knob** to block the cutting head in position.



STARTING UP AND OPERATION

START-UP

Connect the Excelion 1200 grass cutting brush-cutter's electric cord to the Pellenc battery.

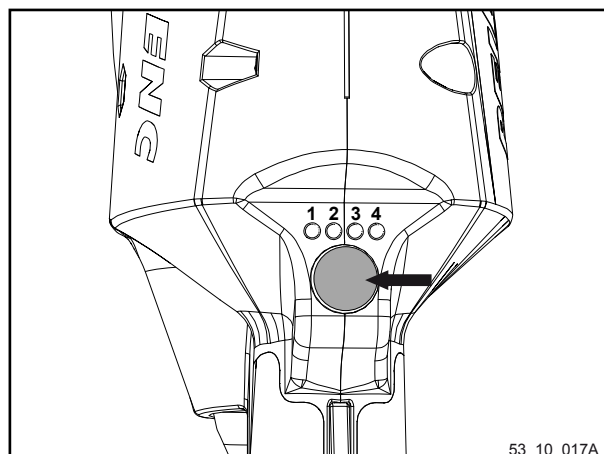
Switch the Pellenc tools battery start/stop switch to the "I" ON position.

The LEDs on the speed selection display panel light up and the battery emits three short beeps.

The tool is now energized and ready to function.

According to the type of cutting tool and the type of vegetation (see table below), select the adequate speed by pressing the **max. speed switch**.

Pressure applied to the trigger enables the speed to be progressively increased up to its maximum value.



Max. speed	Grass Cutting mode	Brush Cutting mode with Bident
1	Grass (little projection)	Small shrubs or ligneous weeds
2	Grass	Thick weeds or bramble
3	Thick weeds	Not recommended (high consumption level)
4	Very thick weeds	Not recommended (high consumption level)

REMARK:

**The Grass Cutting mode is more efficient at speed No. 4.
In the event of excessive projections, reduce the speed.**

HANDLING THE MACHINE

REMARK:

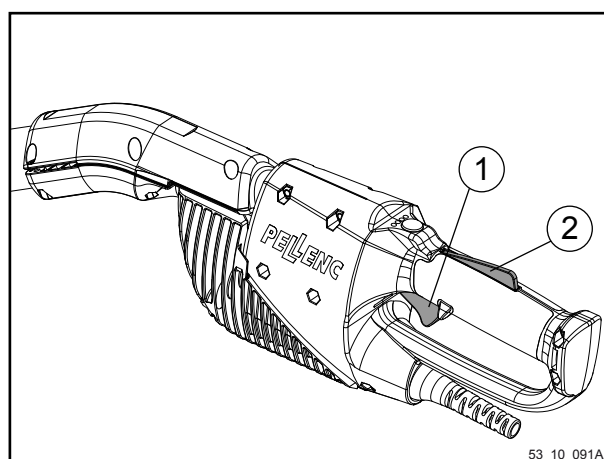
The machine can only be activated if the safety trigger is pressed at the same time as the control trigger. Once the machine is in operation, the safety trigger can be released.

Adjust the machine's working position (see page 19).

Take hold of the tool using the two handles and check that nothing is in contact with the cutting tool.

Press and hold the safety trigger (2).

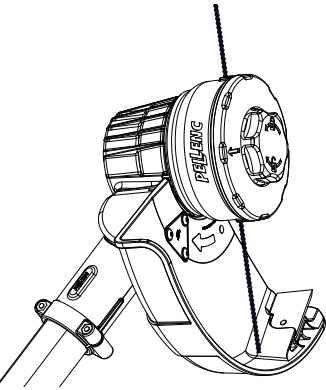
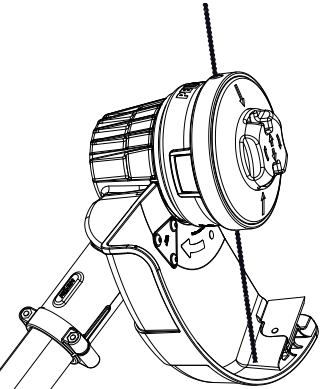
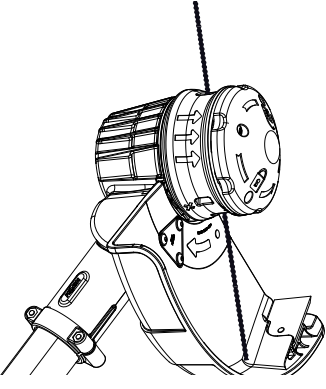
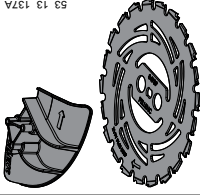
Actuate the progressive control trigger (1).



USAGE

Choosing the adequate cutting head is important for the result of your mowing operation. Whether you wish to clean and enhance your green area, eliminate tall grass and wild vegetation, or thickets or bushes obstructing the way.

You have a choice of 3 professional Pellenc cutting heads:

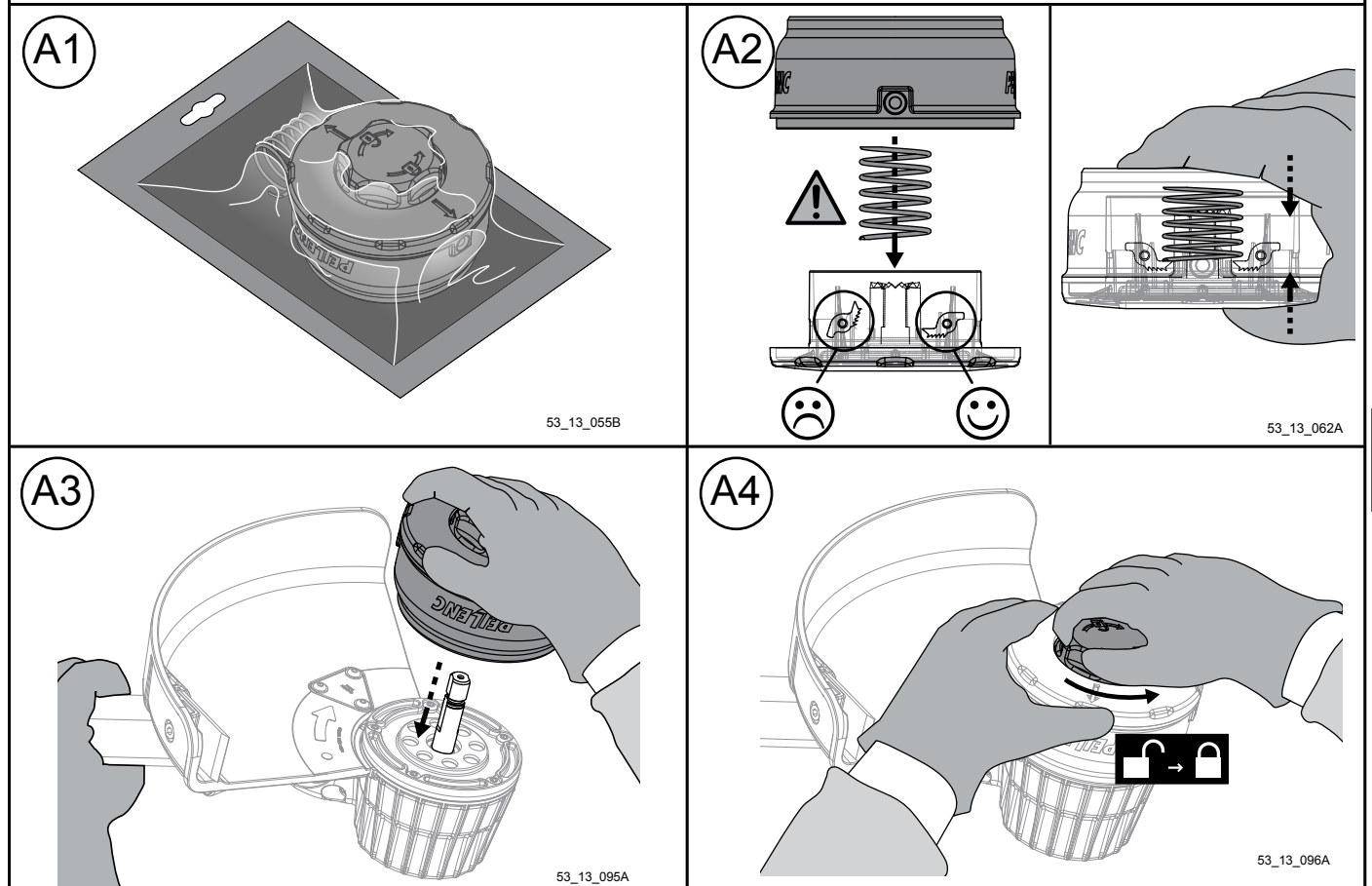
1- Head: ROLL CUT	2- Head: TAP CUT	3- Head: MULTI-CUT
 53_13_132A For mowing large surface areas. The diameter of the wire must be adapted to the vegetation.	 53_13_133A For mowing and tidying up edges. Essentially used in cases of significant wear and tear of the wire. (edge of the wall, along fences)	 53_13_134A For all types of mowing work requiring a rapid change of tool.
 Ø 2.4 PELLENC (up to 9 m)= lawn Ø 3 PELLENC (up to 6 m)= dense grass and scrub brush	 Ø 2.4 PELLENC (up to 5 m)= lawn Ø 3 PELLENC (up to 3.5 m)= dense grass and scrub brush	 Ø 2.4 PELLENC (trimming wires only) = grass
		 Ø 255 mm For the mowing of dense grass and tenacious scrub brush
		 8-tooth blade
		 53_13_137A Cutting of shrubs, plant regrowths or coppices to be used with a specific safety guard

USAGE

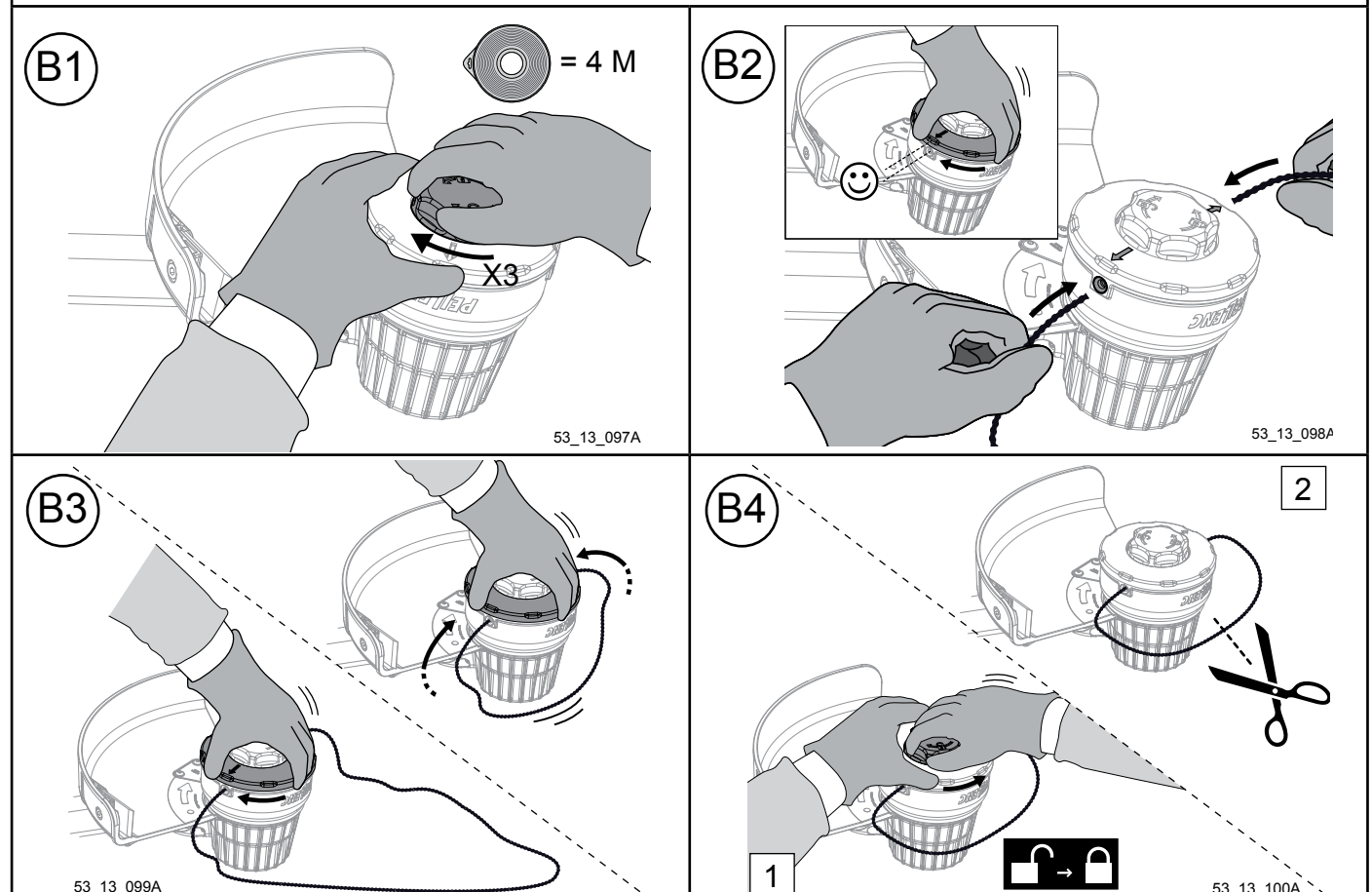
TECHNICAL DESCRIPTION AND OPERATION

HEAD ROLL CUT

ROLL CUT ASSEMBLY::



CUTTING WIRE ASSEMBLY:



ADJUSTMENT OF THE CUTTING WIRE'S POSITION:

C1

53_13_101A

C2

53_13_102A

C3

53_13_103A

C4

53_13_104A

RELOADING OF THE ROLL CUT :

D1

53_13_105A

D2

53_13_106A

D3

53_13_061B

D4

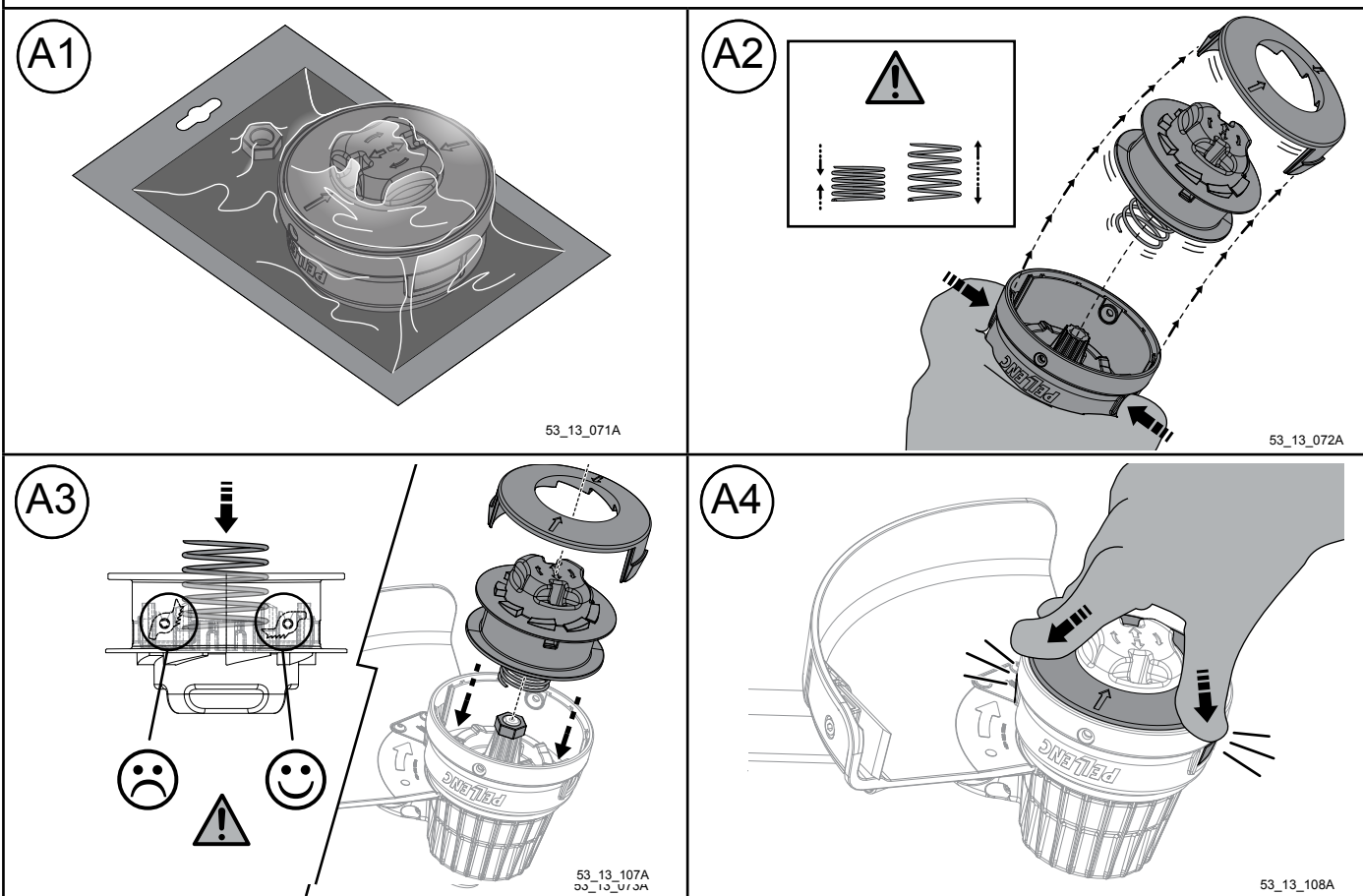
A2

USAGE

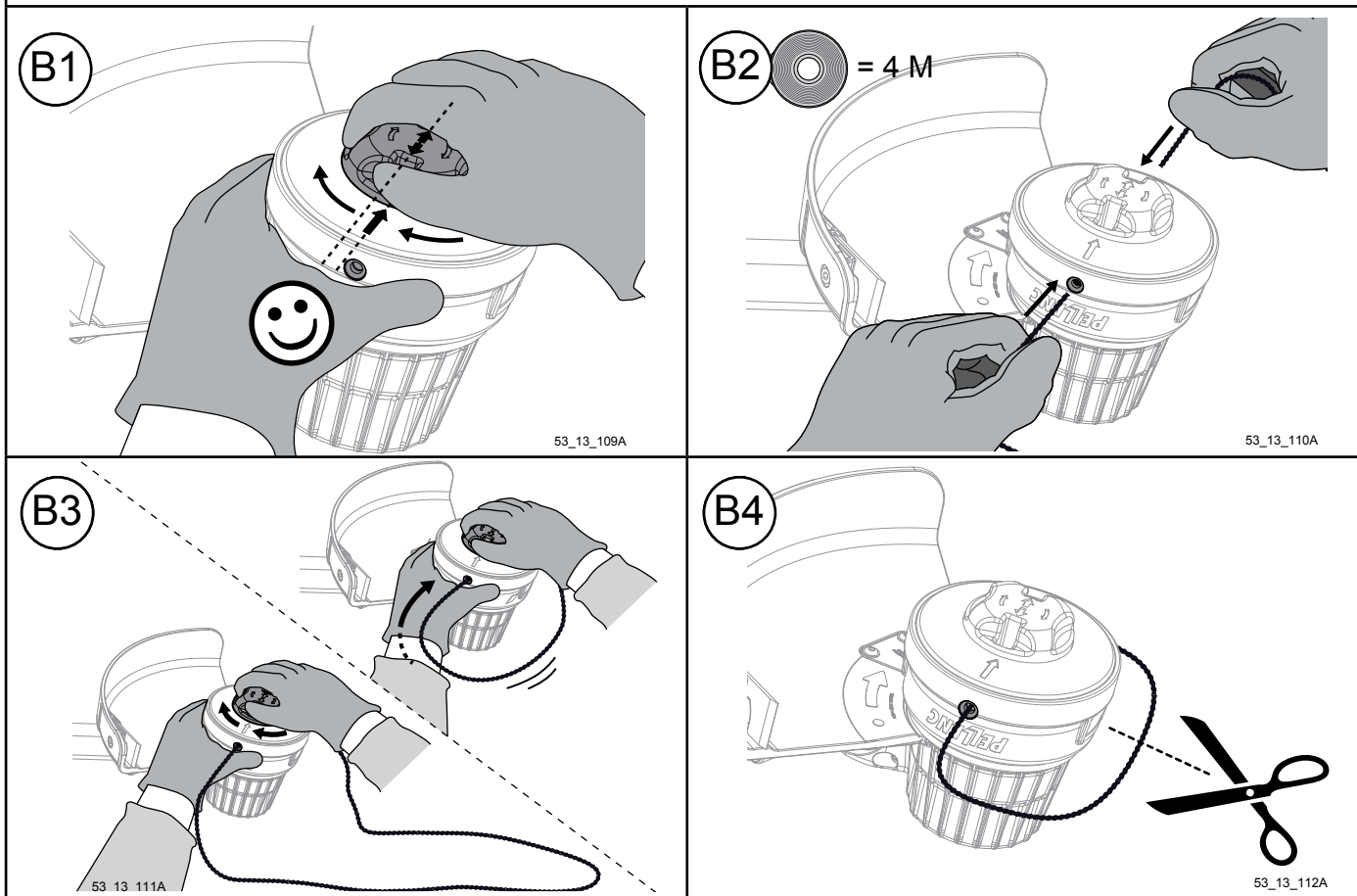
TECHNICAL DESCRIPTION AND OPERATION

HEAD TAP CUT

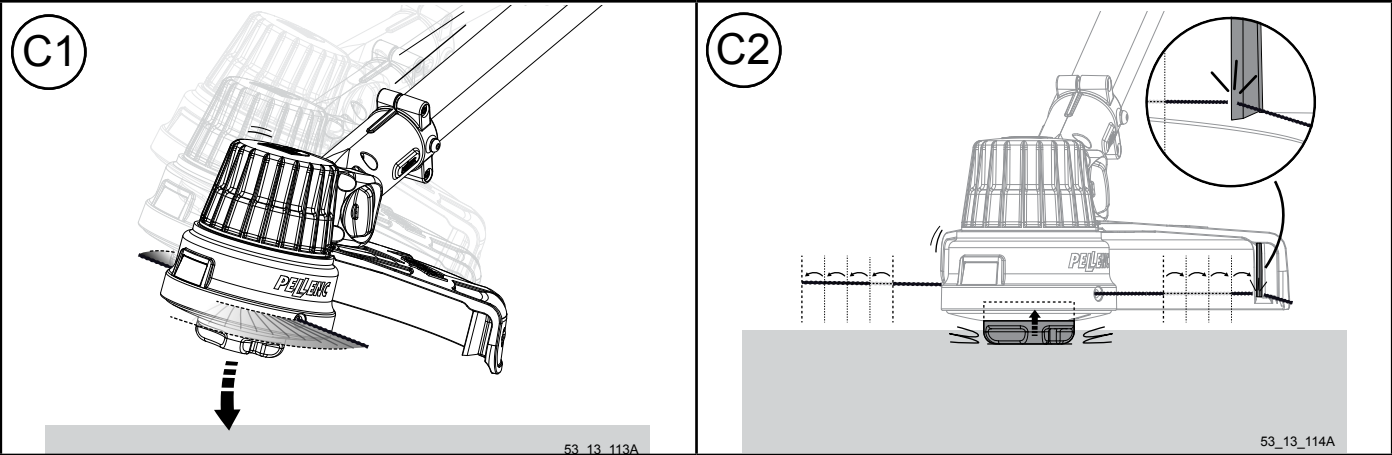
TAP CUT ASSEMBLY :



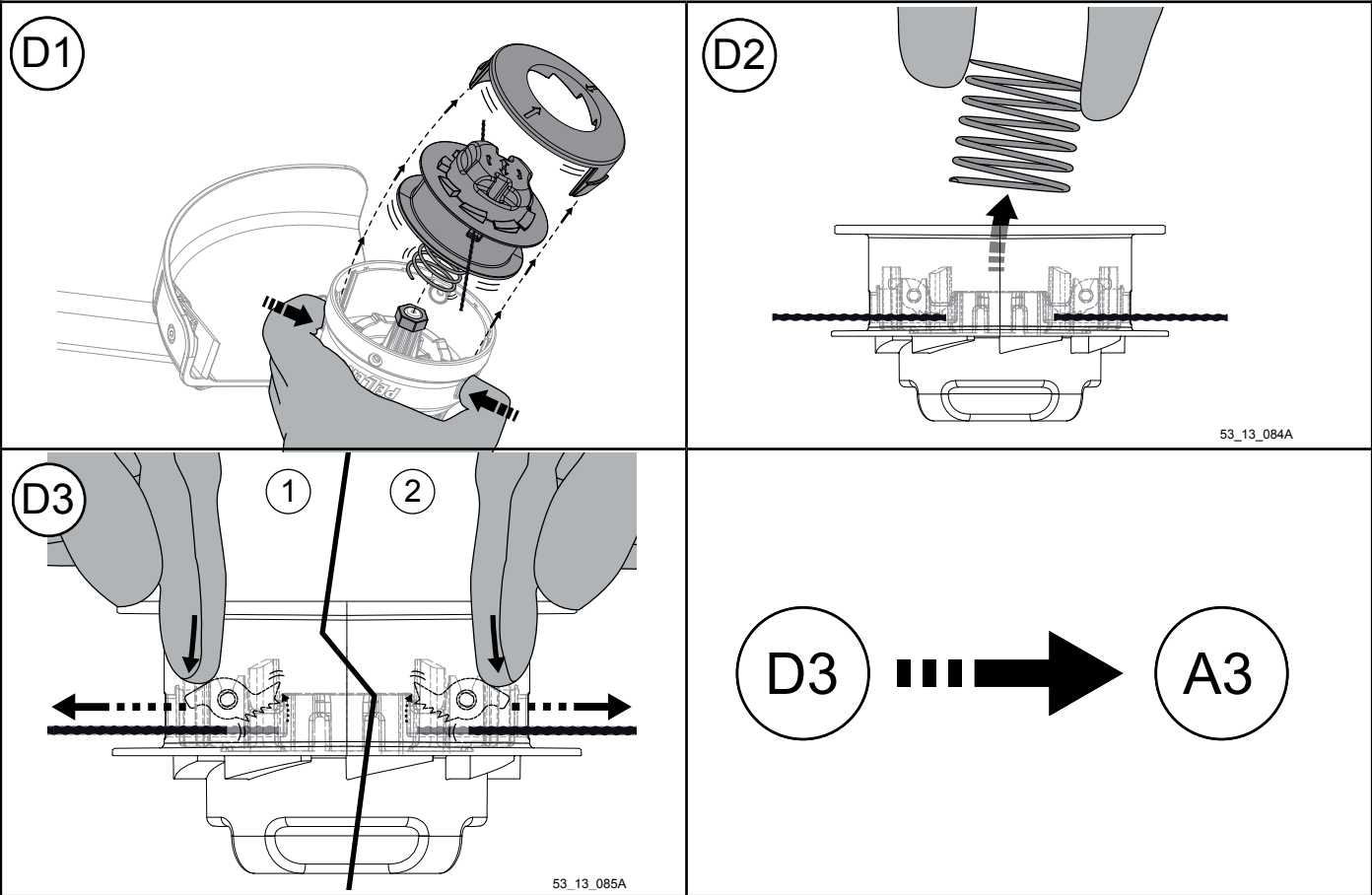
CUTTING WIRE ASSEMBLY:



ADJUSTMENT OF THE CUTTING WIRE'S POSITION:



TAP CUT RECHARGING:

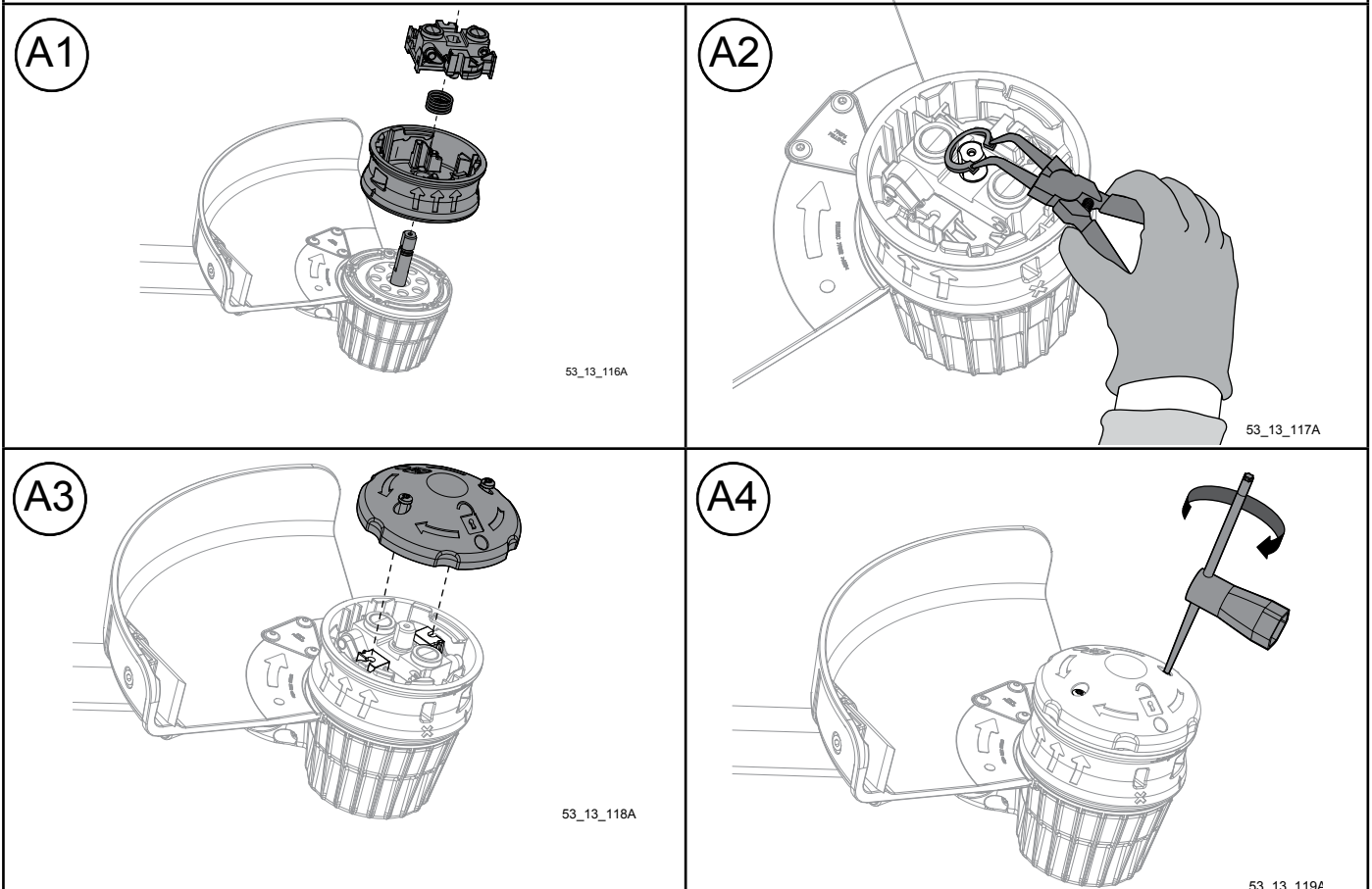


USAGE

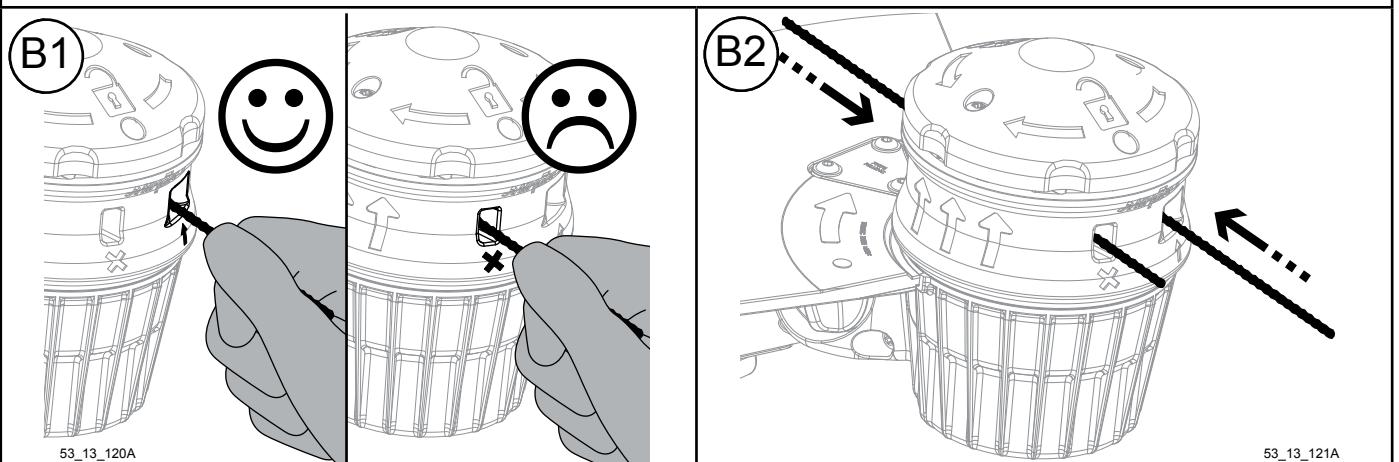
TECHNICAL DESCRIPTION AND OPERATION

MULTI-CUT CUTTING HEAD

MULTI-CUT ASSEMBLY:

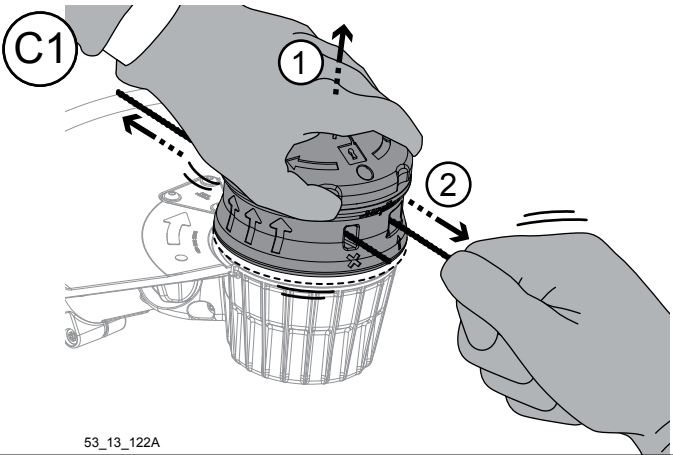


CUTTING WIRE ASSEMBLY:



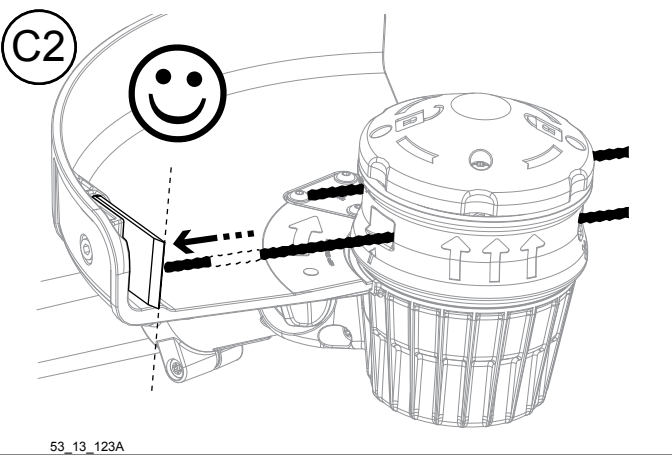
ADJUSTMENT OF THE CUTTING WIRE'S POSITION:

C1



53_13_122A

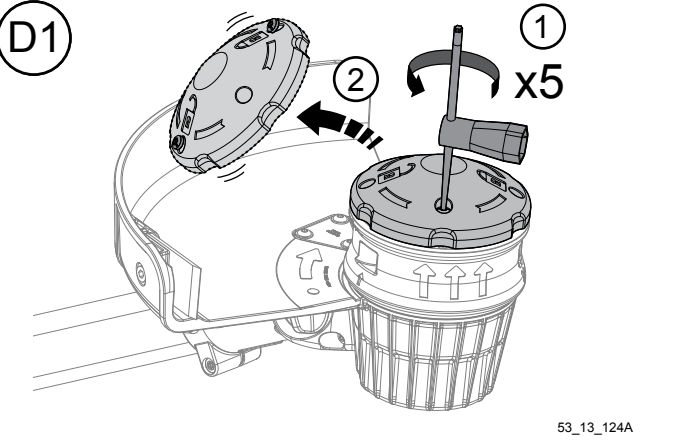
C2



53_13_123A

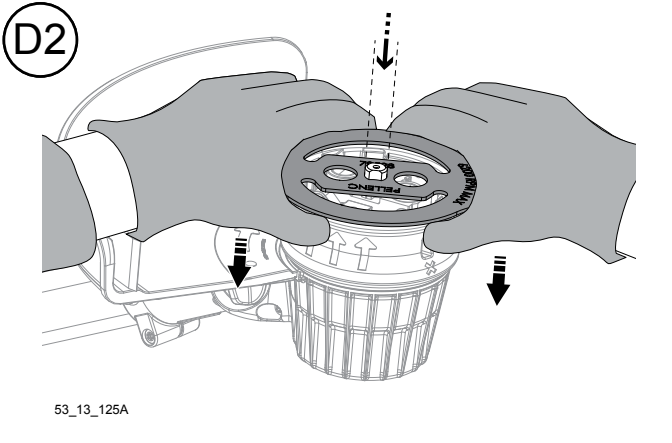
DOUBLE-TOOTHED BLADE ASSEMBLY

D1



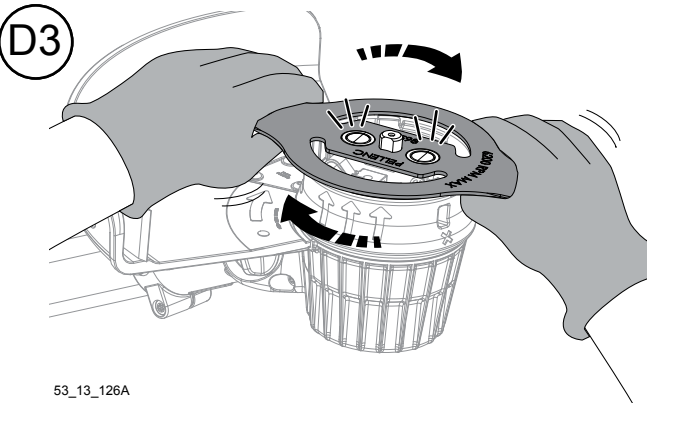
53_13_124A

D2



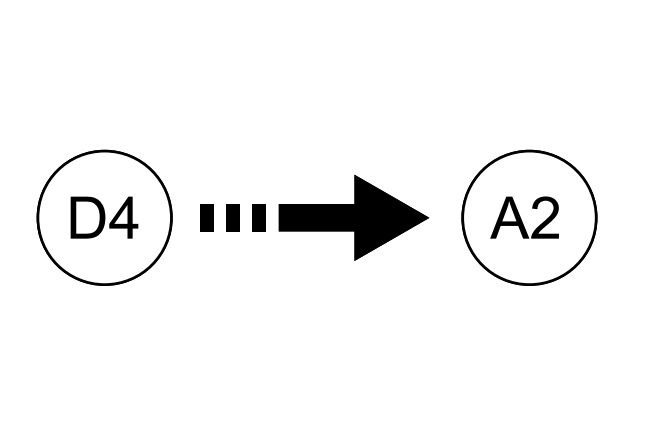
53_13_125A

D3



53_13_126A

D4



MAINTENANCE

REMARK:

Have the machine overhauled every 250 operating hours or once a year at least by an approved Pellenc dealer.

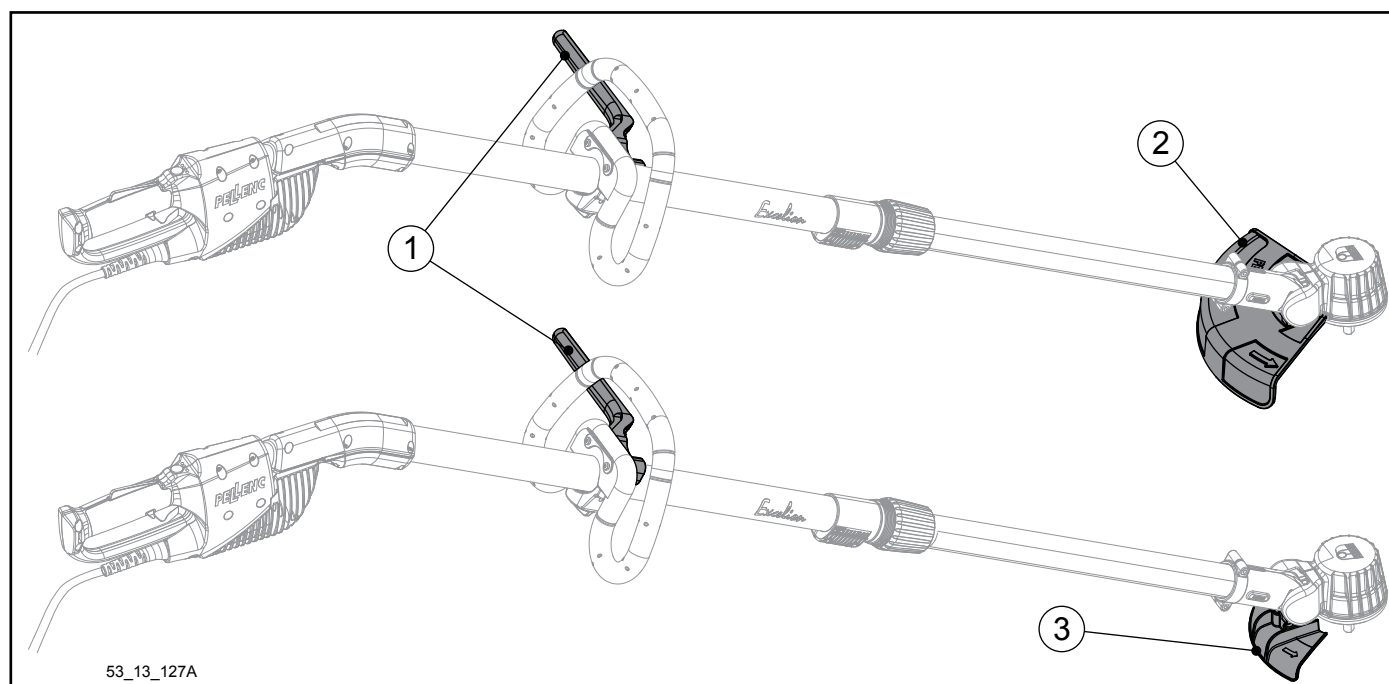
Always store the machine clean and in a dry enclosure with the battery charged.

Maintenance task	Each time the machine is used	Every two hours	Each week	After use	Every year or when required
Cleaning the Excelion 1200 grass cutting brush-cutter				X	
Visual check of the machine's safety systems (distancing device, carrying eye, safety casing)	X			X	
Check the trigger safety system functions	X				
Check the sharpness of blades and sharpen if necessary	X	X			X
Visual check of the cutting tool (no cracks or deformation)	X	X			X
Visual check of the cutting tool at the shaft attachment (no deformations or wear)	X	X			X
Check the wear of the notched cam's teeth and sharpen if necessary or remplace the notched cam	X		X		X
Check the battery level	X				
Inspection of the machine by an approved Pellenc dealer					X

MAINTENANCE

PART NUMBERS FOR SPARE PARTS

Safety elements:

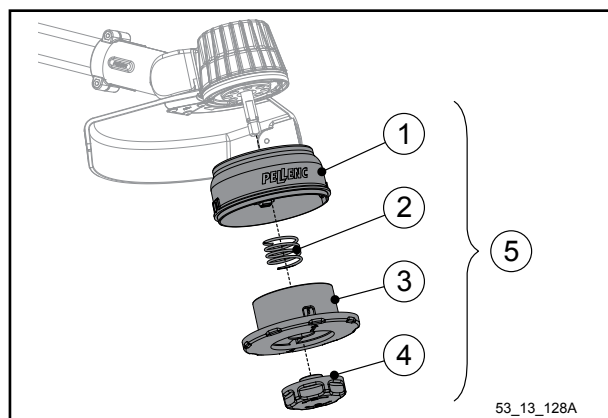


Cutting head elements:

- 1—Remoting device, ref. 83898
- 2—Standard housing, ref. 80367
- 3—Soft-tooth saw housing, ref. 87137

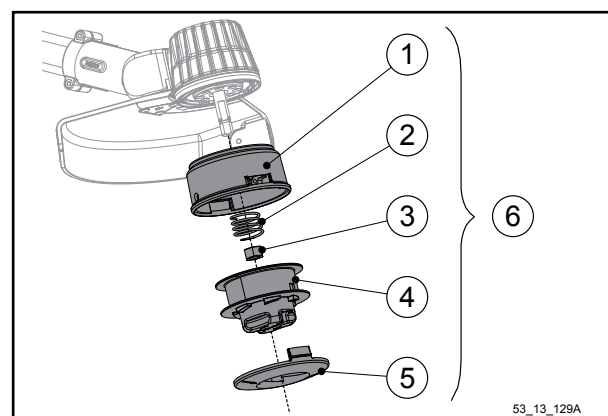
Cutting head parts:

Cutting head: ROLL CUT



- 1—Ref. 107711
- 2—Ref. 107715
- 3—Ref. 107712
- 4—Ref. 106803
- 5—Ref. 57076

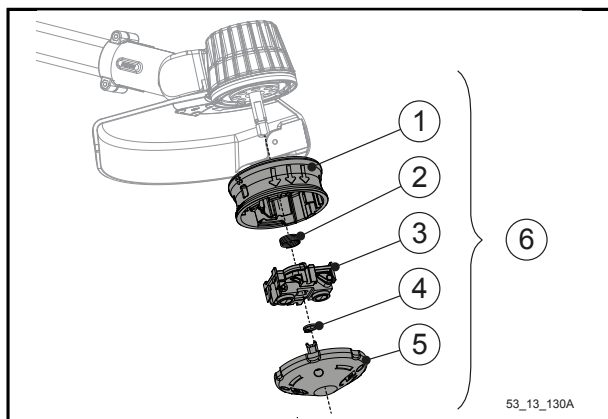
Cutting head: TAP CUT



- 1—Ref. 113412
- 2—Ref. 113414
- 3—Ref. 107375
- 4—Ref. 113413
- 5—Ref. 107374
- 6—Ref. 57078

MAINTENANCE

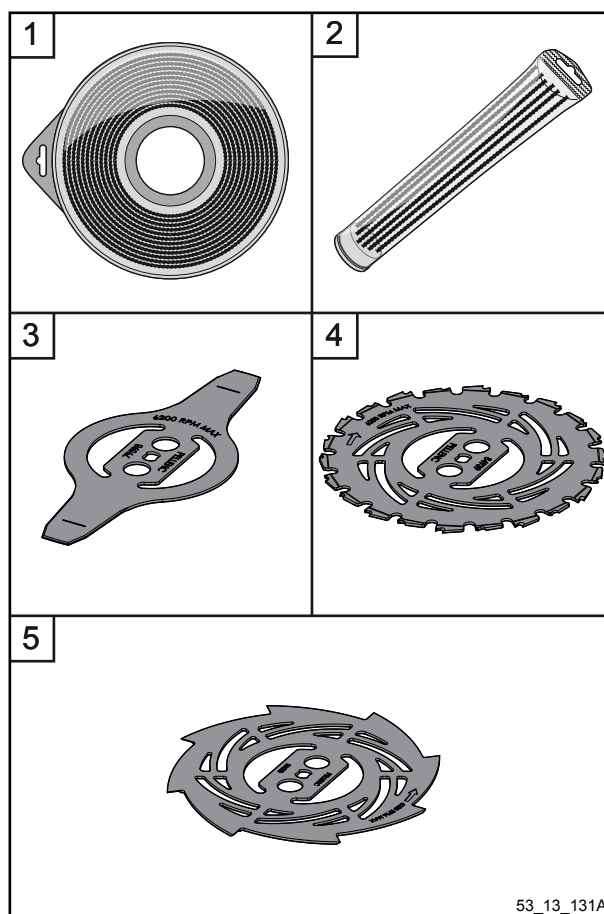
Cutting head: MULTI-CUT



- 1– Ref. 80366
- 2– Ref. 79032
- 3– Ref. 80362
- 4– Ref. 76715
- 5– Ref. 81116
- 6– Ref. 57075

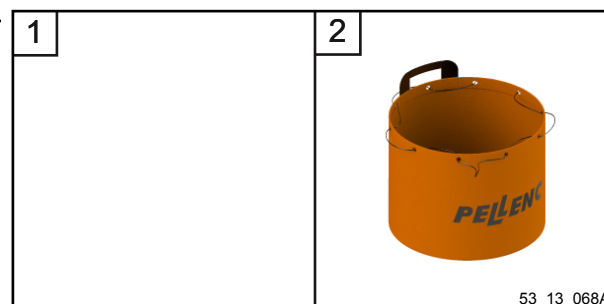
Cutting tools:

- 1– Nylon wire shell
 $\varnothing$ 2,4 mm (70 m with $\pm 1\%$) = 79601
 $\varnothing$ 3 mm (56 m with $\pm 1\%$) = 108911
- 2– Nylon wire tube $\varnothing$ 2.4 mm (200 mm strands) = 79602
- 3– Bimetal
 $\varnothing$ 255 mm = 79598 (only on MULTI-CUT)
- 4– Clearing saw = 84939
 With recommended housing = 87137
- 5– 8 tooth blade = 82095 (only for MULTI-CUT)



Accessories:

- 1– Harness = 112982
- 2– Carrying bag = 111800



INCIDENTS

Symptoms	Battery start/stop switch position	Condition of diodes	Probable cause	Checks	Solutions	Repaired by
The tool does not start	0	Off	Battery off	Battery switch	Switch on the battery switch	User
	I	Off	The power cord is sectioned	Check the cord's condition	Change the cord	PELLENC approved dealer
			Battery	Check that the battery is not completely discharged	Recharge the battery	User
			Electronic board	At PELLENC approved dealer premises	Change the electronic board if the diodes remain off after starting and checking the previous points	PELLENC approved dealer
		On	A trigger no longer functions	At PELLENC approved dealer premises	Change the trigger or sensor	PELLENC approved dealer
			Electronic board	At PELLENC approved dealer premises	Change the electronics board	PELLENC approved dealer

INCIDENTS

Symptoms	Condition of battery start/stop switch	Condition of diodes	Probable cause	Checks	Solutions	Repaired by
The cutting head (wire or metal blade) makes an abnormal noise or vibrates heavily	I	On	Damaged cutting blade	Check the blade's condition (no cracks or deformations)	Change the cutting blade	User
			Damaged crown	Check there are no deformations	Change the crown	User
			Damaged cutting blade retaining element	Check there are no deformations	Change the metal blade retaining element	PELLENC approved dealer
			Damaged motor shaft	Check the shaft's condition (no deformations)	Change the motor shaft	PELLENC approved dealer
Cutting wire ejected during use	I	On	Fouled cutting head	Clean the cams	Change the blocking device	User
			Worn notched cam teeth	Check the condition of the teeth		PELLENC approved dealer

INCIDENTS

Symptoms	Condition of battery start/stop switch	Condition of diodes	Probable cause	Checks	Solutions	Repaired by
The tool stops during use	I	On	A trigger no longer functions	At PELLENC approved dealer premises	Change the trigger or sensor	PELLENC approved dealer
		Off	The power cord is sectioned	Check the condition of the cord	Change the cord	PELLENC approved dealer
			The tool has reached its temperature limit	4 beeps on the battery	Allow tool to cool for approximately 5 minutes	User
			The battery is discharged	When stopped, check the battery charge level indicated on the side display	Recharge the battery (if less than 10%)	User

«PELLENC SA» TERMS OF WARRANTY AND NON-RESPONSIBILITY CLAUSE MACHINE RANGE FOR OEP

In the event of failure of a mechanical part and subject to normal, rational use and maintenance in compliance with the maintenance manual, **PELLENC sa guarantees its products for a period of ONE YEAR** as of delivery; this time shall not exceed a period of 18 months following departure from the factory of the equipment under warranty : on one hand in accordance with the conditions stipulated in the warranties of PELLENC sa and on the other hand subject to the delivery report indicating the commissioning date was made known to PELLENC sa.

In the event of an accident and total or partial destruction of the product, PELLENC sa's warranty can only be granted, and their responsibility engaged, if the party claiming the warranty can provide technical proof specifying the origin of the accident, a defect in materials or a structural defect and the product components which are the cause of it.

This contractual warranty excludes any other responsibility of PELLENC sa, whether implicit or explicit. For this reason, the responsibility of PELLENC sa can not exceed the limits defined above and covers, to a limited extent, repair **or** replacement, as chosen by PELLENC sa, of parts recognized to be defective and, when applicable, the labour required to perform the repair or replacement on the basis of warranty time as defined by PELLENC sa.

Any maintenance or repair work whatsoever carried out during the warranty period shall mandatorily be performed by PELLENC sa or by a PELLENC sa authorized dealer, under penalty of forfeiture of the warranty.

All costs arising from the immobilization, movement, approach and transport shall be, in all events, for the sole account of the purchaser.

As concerns parts or equipment that are not manufactured by PELLENC sa, in particular ball screw, battery, etc., the warranty is limited to that of the suppliers to PELLENC sa. Normal wear parts worn out as the result of use are never under warranty.

PELLENC sa and the authorized dealer shall not be liable in the following cases:

- Malfunctions due to faulty servicing, user inexperience or abnormal use.
- Failure to perform overhauls and checks in accordance with manufacturer's instructions.
- Replacement of genuine parts or accessories with parts of accessories of another origin, or when the machine sold has been transformed or modified.

This warranty is explicitly limited to the terms defined above. **PELLENC sa shall not be liable, under any circumstances, for payment of any indemnity for any reason whatsoever.**

However, it is specified, in compliance with the provisions of decree No. 78.464 dated March 24th 1978, that this contractual guarantee does not replace the legal guarantee which obliges the seller to guarantee the buyer against the consequences of defects or hidden defects of the object sold.

NEVER ATTEMPT TO OPEN THE GRASS CUTTING BRUSH-CUTTER OR BATTERY AS YOU RISK INVALIDATING THE WARRANTY. REFER THE PROBLEM TO AN APPROVED REPAIRER.

PATENTED EQUIPMENT

- Technical characteristics are given for information purposes only; under no circumstances are they contractual.
- **PELLENC** reserves the right to make design and manufacturing modifications with the aim of constant progress towards **PERFECTION**.

Roger PELLENC
Chief Executive Officer

A handwritten signature in black ink, appearing to be 'R. Pelenc', with a stylized, cursive script.

“CE” STATEMENT OF CONFORMITY

(ONLY CONCERNS EUROPE)

MANUFACTURER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)
PERSON/ENTITY AUTHORISED TO COMPILE THE TECHNICAL DOSSIER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)

WE HEREBY DECLARE THAT, FOR THE MACHINE HEREINAFTER REFERRED TO AS:

- GENERIC DENOMINATION	ADAPTABLE GRASS CUTTER
- FUNCTION	MAINTENANCE OF GREEN SPACES
- COMMERCIAL NAME	EXCELION 1200
- TYPE	EXCELION 1200
- MODEL	EXCELION 1200
- SERIAL No.	

COMPLIES WITH THE PERTINENT PROVISIONS OF THE MACHINES DIRECTIVE (2006/42/CE)

AND COMPLIES WITH THE PROVISIONS OF THE FOLLOWING OTHER EUROPEAN DIRECTIVES:

- ELECTROMAGNETIC COMPATIBILITY 2004/108/CE

Sound Level at the maximum operating rating

Symbol	Value	Unit	Reference	Comment
L_{WAm}	90	dB(A)	1 pW	Measured sound power level
L_{WAq}	91	dB(A)	1 pW	Guaranteed sound power level

The recording of the measured sound power level and of the guaranteed sound power level has been performed according to a procedure in accordance with directive 2000/14/CE appendix V.

THE FOLLOWING HARMONIZED EUROPEAN STANDARDS WERE USED:

- EN 60745-1:2009

CONCLUDED AT PERTUIS, DATED 01/07/2013

ROGER PELLENC
CHIEF EXECUTIVE OFFICER



